

WHAT IS CLAIMED IS:

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Subarray

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1. An image forming apparatus comprising:
a processing unit processing image data;
an interface unit between a graphics port and
a peripheral device interconnection port;
a print engine connected to the peripheral
device interconnection port; and
a first memory provided on a side of the
processing unit with respect to the graphics port,
wherein the processing unit stores the image
data in the first memory, and transfers the image data
stored in the first memory to the print engine directly
through the graphics port, the interface unit and the
peripheral device interconnection port.

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2. The image forming apparatus as claimed in
claim 1, further comprising a second memory connected to
the interface unit so that the second memory is

connected to the first memory via the graphics port,
wherein the processing unit transfers the image data
from the first memory to the second memory through the
graphics port so as to transfer the image data from the
5 second memory to the print engine through the peripheral
device interconnection port.

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3. The image forming apparatus as claimed in
claim 2, further comprising a compressor connected
between the graphics port and the second memory and a
decompressor connected to said second memory, wherein
15 the compressor compresses the image data transferred
from the first memory to the second memory so as to
store the compressed image data in the second memory,
and the decompressor decompresses the compressed image
data and stores the decompressed image data in the
20 second memory so as to transfer the decompressed image
data from the second memory to the print engine through
the peripheral device interconnection port.

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Subpart 7

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5. The image forming apparatus as claimed in claim 1, further comprising a decompressor connected the second memory, wherein the processing unit compresses the image data by using a software and stores the compressed image data in the first memory, and the decompressor decompresses the compressed image data stored in the second memory and stores the decompressed image data in the second memory so that the decompressed image data is transferred from the second memory to the print engine though the peripheral device interconnection port.

7 A method of transferring image data to a print engine through a peripheral device interconnection port, the method comprising the steps of:

storing the image data in a first memory;
transferring the image data from the first memory to an interface unit through a graphics port; and
transferring the image data from the interface unit to the print engine through the peripheral device interconnection port.

transferring the image data from the first memory to a second memory through the graphics port; and

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storing the compressed image data in the
second memory;

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compressing the image data and storing the
compressed image data in the first memory;

transferring the decompressed image data to the print engine through the peripheral device interconnection port.

compressing the image data and storing the
compressed image data in the first memory;

decompressing the compressed image data stored
in the second memory; and

transferring the decompressed image to the
print engine through the peripheral device
25 interconnection port.

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

compressing the image data and storing the
compressed image data in the first memory;

transferring the compressed image data from the first memory to the second memory through the graphics port;

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decompressing the compressed image data stored
in the second memory;

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storing the decompressed image data in the second memory; and

transferring the decompressed image data from the second memory to the print engine through the peripheral device interconnection port.

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